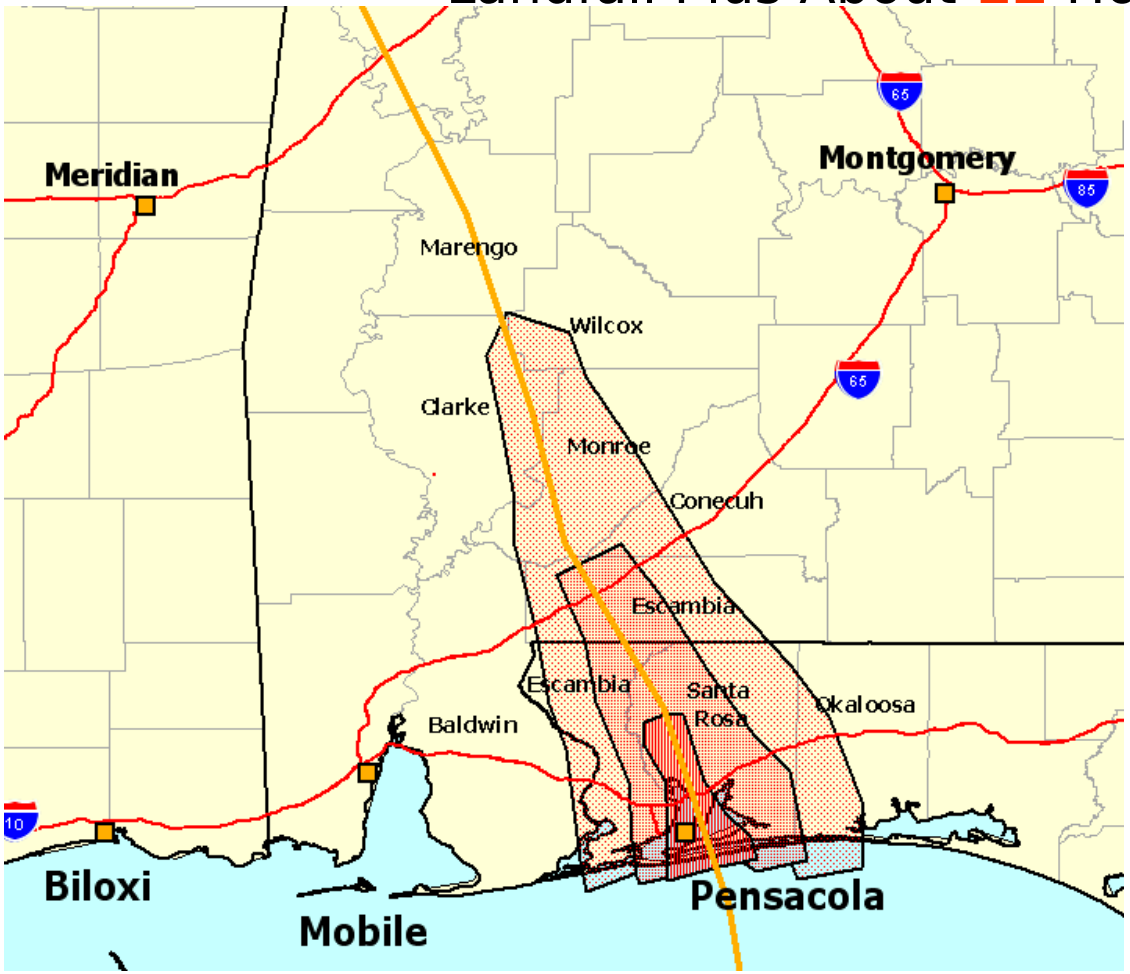
Hurricane Dennis Wind Distribution

Landfall Plus About 12 Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Wind Field

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/11/2005

Hurricane Dennis Debris Model

Landfall Plus about **12** Hours

For Official Use Only!

Most Probable Landfall Debris Model Results

Florida – 3,276,000 yd^3
Alabama – 387,000 yd^3

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Debris Model**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen	
Generated Date: 0630 EDT 07/11/2005	Page 2 of 18

Hurricane Dennis Debris Model

Landfall Plus about **12** Hours

For Official Use Only!

State	Yards Per State	County	Yards Per County
Alabama	387,000		
		Baldwin	18,000
		Clarke	37,000
		Conecuh	9,000
		Escambia	201,000
		Marengo	11,000
		Monroe	88,000
		Wilcox	23,000
Alabama			
Florida	3,276,000		
		Escambia	1,454,000
		Okaloosa	212,000
		Santa Rosa	1,610,000
Florida			
TOTAL	3,663,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
07/11/2005

Hurricane Dennis Ice Model

Landfall Plus About **12** Hours

For Official Use Only!

Most Probable Landfall Ice Model Results

Florida – 1,325,000 pounds
Alabama – 155,000 pounds

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers	**Hurricane Dennis Ice Model**
Sources: HURREVAC LRL-DEBRIS	
Generated By: Terry Siemsen **Generated Date** 0630 EDT 07/11/2005	Page 4 of 18

Hurricane Dennis Ice Model

Landfall Plus About 12 Hours

For Official Use Only!

State	Pounds per State	County	Pounds per County	Truckloads
Alabama	**155,000**			**9**
		Baldwin	8,000	1
		Clarke	13,000	1
		Conecuh	5,000	1
		Escambia	76,000	2
		Marengo	1,000	1
		Monroe	47,000	2
		Wilcox	5,000	1
Florida	**1,325,000**			**34**
		Escambia	757,000	19
		Okaloosa	159,000	4
		Santa Rosa	409,000	11
TOTAL	**1,480,000**			**43**

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Ice Model

Sources:
HURREVAC
LRL-DEBRIS

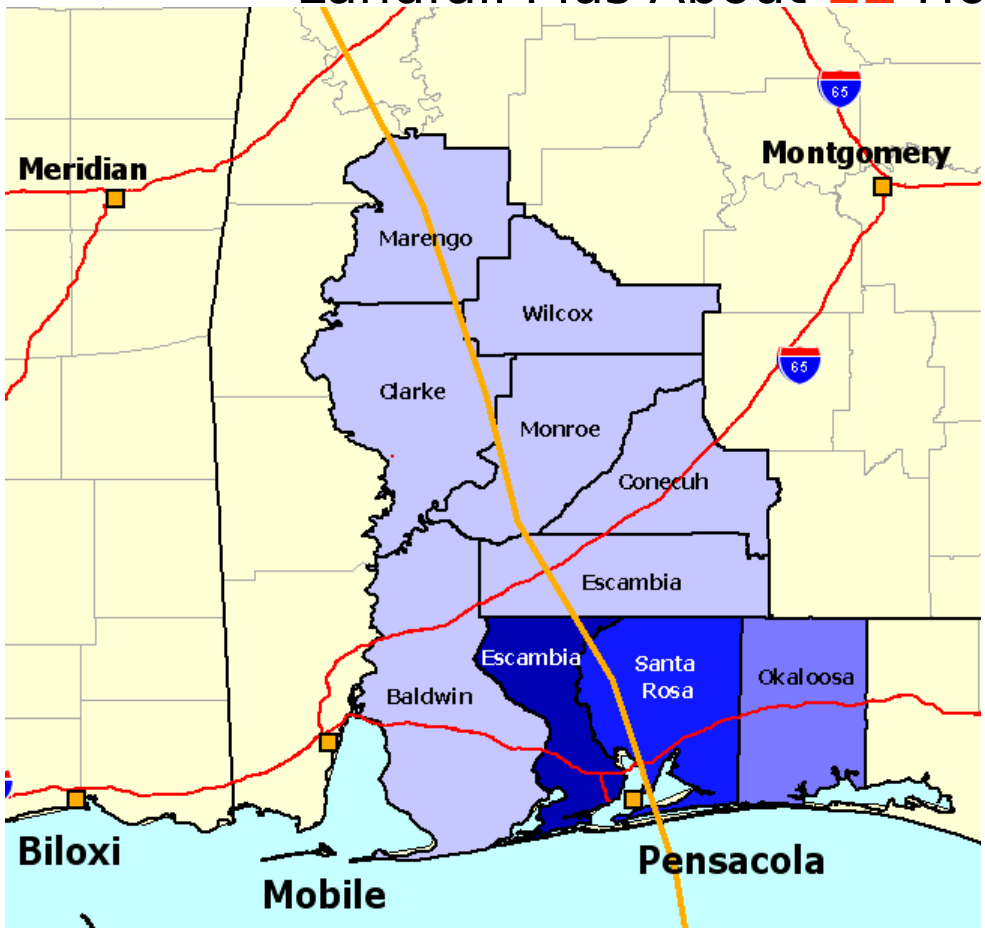
Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Water Model

Landfall Plus About **12** Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida – 497,000 Liters
Alabama – 60,000 Liters

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Water Model

Landfall Plus About **12** Hours

For Official Use Only!

State	Liters Per State	County	Liters Per County	Truckloads
Alabama	**60,000**			**8**
		Baldwin	3,000	1
		Clarke	5,000	1
		Conecuh	2,000	1
		Escambia	29,000	2
		Marengo	1,000	1
		Monroe	18,000	1
		Wilcox	2,000	1
Florida	**497,000**			**29**
		Escambia	284,000	16
		Okaloosa	60,000	4
		Santa Rosa	153,000	9
TOTAL	**557,000**			**37**

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Dennis will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Population Model

Landfall Plus About **12** Hours

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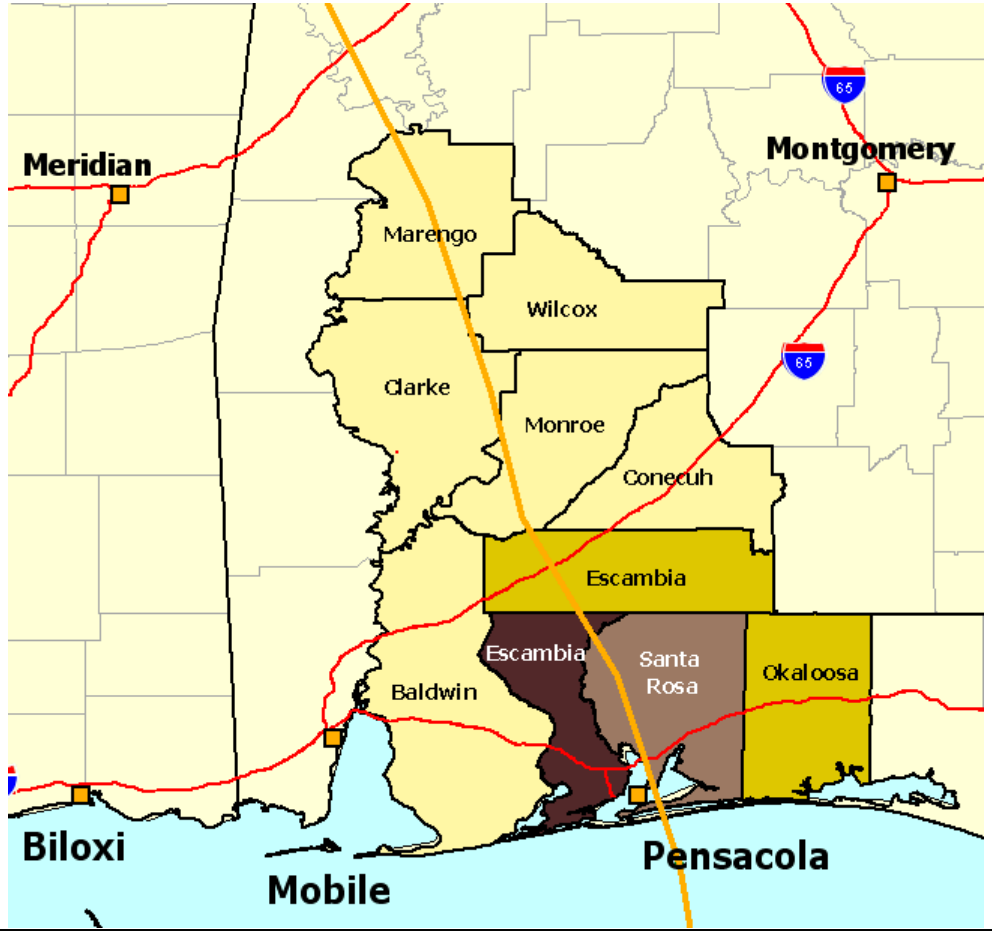


Most Probable Landfall Population Model Results

Florida – 476,000 persons
Alabama – 65,000 persons

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date 0630 EDT 07/11/2005

Hurricane Dennis Population Model

Landfall Plus About **12** Hours

For Official Use Only!

State	Population per State	County	Population per County
Alabama	65,000		
		Baldwin	3,000
		Clarke	5,000
		Conecuh	2,000
		Escambia	32,000
		Marengo	1,000
		Monroe	20,000
		Wilcox	2,000
Florida	476,000		
		Escambia	293,000
		Okaloosa	66,000
		Santa Rosa	117,000
TOTAL	541,000		

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Households Model

Landfall Plus About **12** Hours

For Official Use Only!

Most Probable Landfall Households Model Results

Florida – 181,000 households
Alabama – 26,000 households

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** historic track.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date 0630 EDT 07/11/2005

Hurricane Dennis Households Model

Landfall Plus About **12** Hours

For Official Use Only!

State	Households Per State	County	Households Per County
Alabama	26,000		
		Baldwin	1,000
		Clarke	2,000
		Conecuh	1,000
		Escambia	12,000
		Marengo	1,000
		Monroe	8,000
		Wilcox	1,000
Florida	181,000		
		Escambia	110,000
		Okaloosa	28,000
		Santa Rosa	43,000
TOTAL	207,000		

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis
Temporary Roofing Model Results

Landfall Plus About 12 Hours

For Official Use Only!

Most Probable Landfall Temporary Roofing Model Results

Florida – 4,900 structures
Alabama – 800 structures

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500EDT 07/11/2005)*** historic track.

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Temp Roofing Model

Sources: HURREVAC LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date 0630 EDT 07/11/2005

Hurricane Dennis
Temporary Roofing Model Results

Landfall Plus About **12** Hours

For Official Use Only!

State	Houseunits per State	County	Houseunits per County
Alabama	800		
		Baldwin	100
		Clarke	100
		Conecuh	100
		Escambia	200
		Marengo	100
		Monroe	100
		Wilcox	100
Florida	4,900		
		Escambia	2,900
		Okaloosa	300
		Santa Rosa	1,700
TOTAL	5,700		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Roofing Model

Sources:
HURREVAC
LRL-DEBRIS

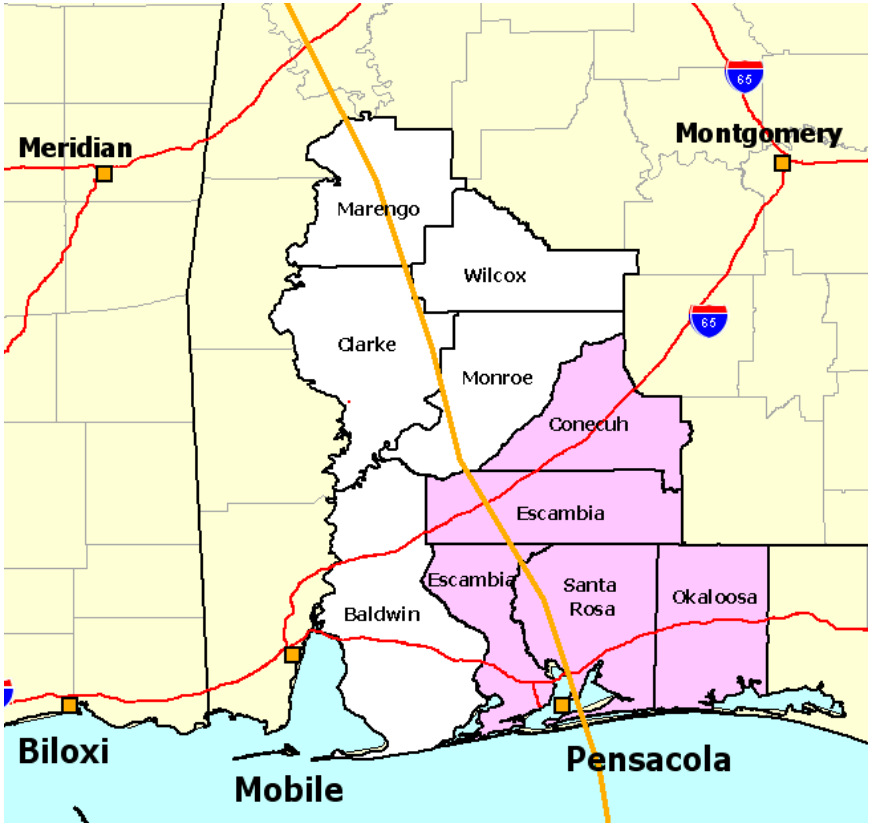
Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis
Temporary Housing Model Results

Landfall Plus About **12** Hours

For Official Use Only!



Most Probable Landfall Temporary Housing Model Results

Florida – 1,800 structures
Alabama – 700 structures

Model results per county on following page

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 07/11/2005)*** historic track.

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis
Temporary Housing Model Results

Landfall Plus About **12** Hours

For Official Use Only!

State	Houseunits per State	County	Houseunits per County
Alabama	700		
		Baldwin	100
		Clarke	100
		Conecuh	100
		Escambia	100
		Marengo	100
		Monroe	100
		Wilcox	100
Florida	1,800		
		Escambia	800
		Okaloosa	100
		Santa Rosa	900
TOTAL	2,500		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units lost in CAT 2 wind areas, and 4% of housing units lost in CAT 3 wind areas.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis emp Housing Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Hospitals

Landfall Plus About **12** Hours

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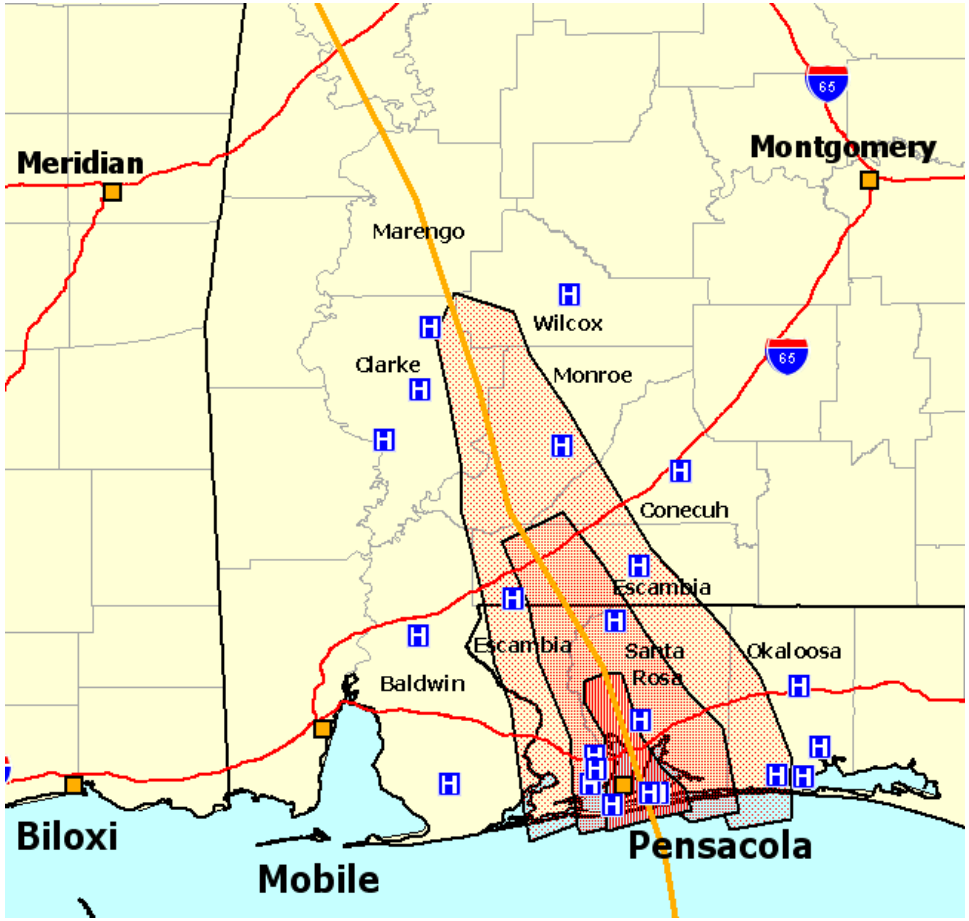

Most Probable Landfall Hospitals inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure –
Florida – 12
Alabama – 10

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Dennis Hospitals

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Police Stations

Landfall Plus About **12** Hours

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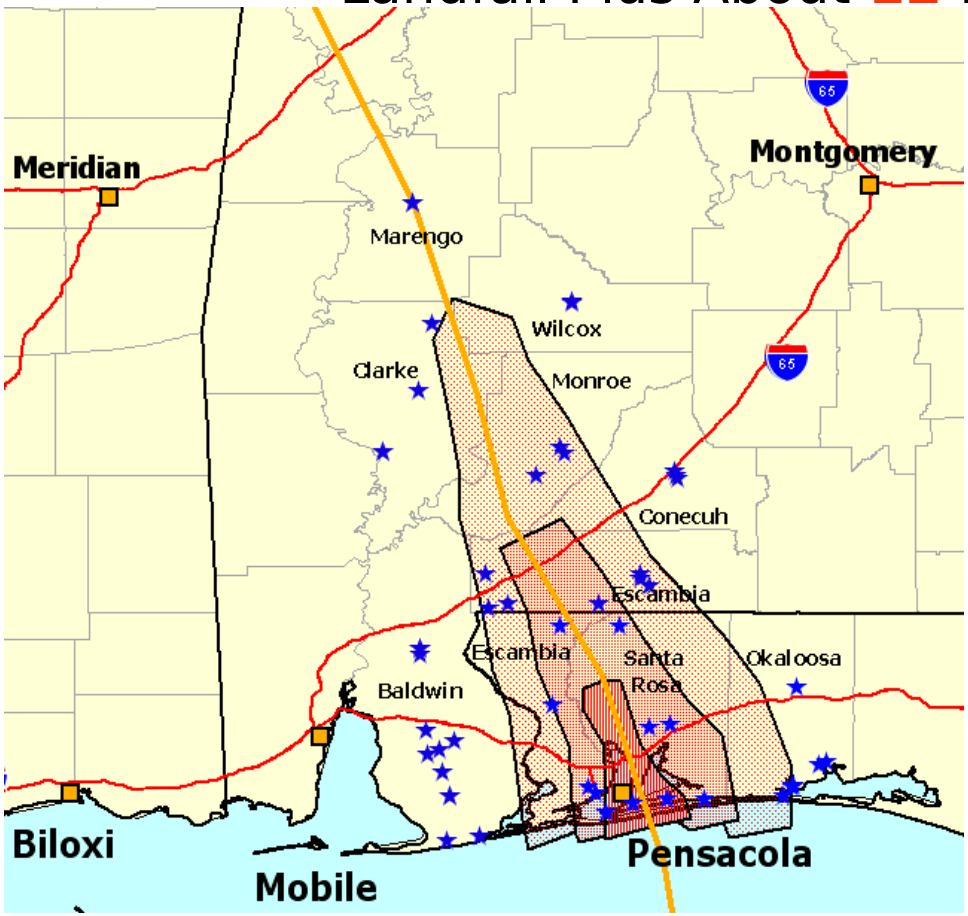

Most Probable Landfall Police Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure –
Florida – 17
Alabama – 33

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of police stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

Details about this model may be obtained at
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US Army Corps of Engineers

Hurricane Dennis Police Stations

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date
0630 EDT
07/11/2005

Hurricane Dennis Fire Stations

Landfall Plus About **12** Hours

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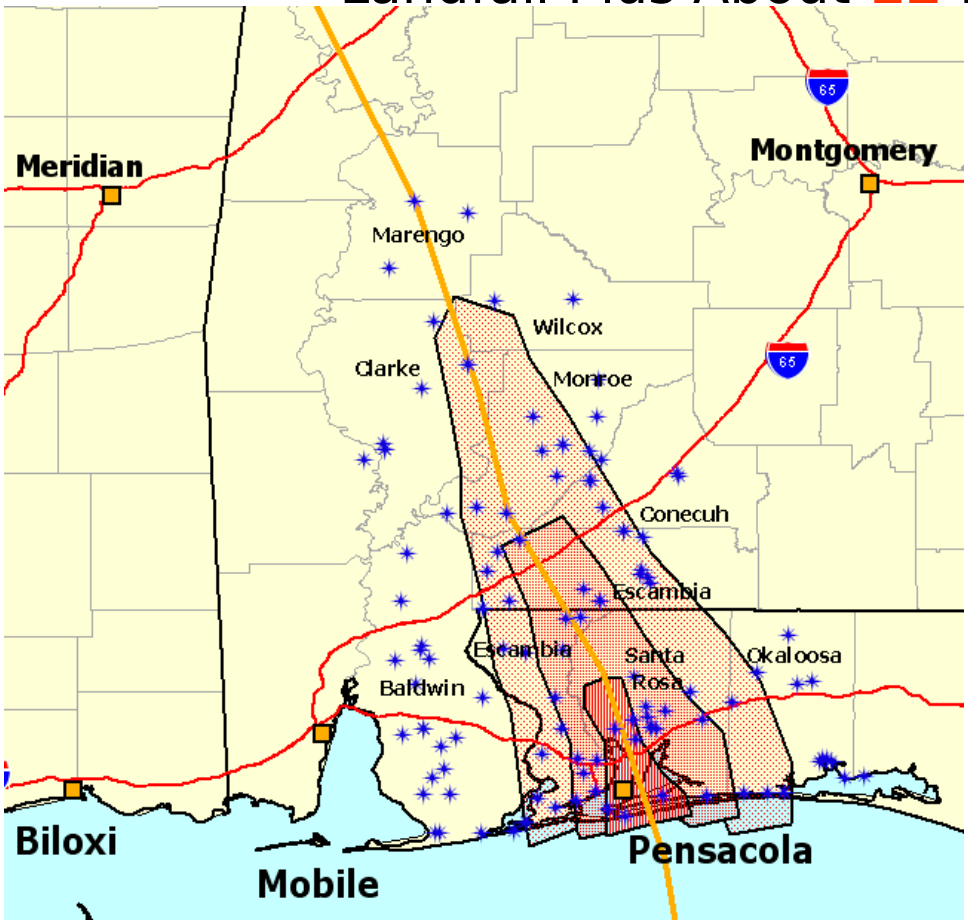

Most Probable Landfall Fire Stations inside Hurricane Force Winds or within 25 miles of Hurricane Force Winds

Critical Infrastructure –
Florida – 47
Alabama – 65

This hurricane scenario is based on a Category 3 storm making landfall in near proximity to Gulf Breeze, FL.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 07/11/2005)*** forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: HAZUS MH).

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US Army Corps of Engineers

Hurricane Dennis Fire Stations

Sources:
HURREVAC
LRL-DEBRIS

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